



# भारत का राजपत्र The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके ।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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Calcutta, the 15th September 1984

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CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

9th August, 1984

559|Cal|84. Aluminium Pechiney. Method of producing an aluminium Trihydroxide with a large, even particle size.

[Addition to No. 782|Cal|83].

560|Cal|84. (1) The General Electric Co. of India Ltd., (2) Sama Naidu Palaniswamy. Improvements in or relating to self aligning contacts in electrical switches.

10th August, 1984

561|Cal|84. Beloit Corporation. Batch Digester Multi-state pulping process.

13th August, 1984

562|Cal|84. Biogen N. V. Vaccines and compositions against hepatitis B Viral Infections. (12th August 1983).

563|Cal|84. Didier Engineering GmbH. A process for preparing film or hand type materials having enhanced upper surface roughness and antiblocking properties.

564|Cal|84. Professor Dr. Ing. Dieter Wurz. A mist Eliminator for eliminating droplets from a gaseous flow.

565|Cal|84. K-Fuel|Koppelman Patent Licensing Trust. Process for making aqueous transportable fuel slurry from carbonaceous materials.

566|Cal|84. Voest-Alpine Aktiengesellschaft. Plant for hot-rolling strip or plate stock.

14th August, 1984

567|Cal|84. Ribi Immunochem Research, Inc. Refined Detoxified Endotoxin.

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CLASS : 176I.

154038.

Int. Cl. F22b 1|00; 35|00.

A METHOD FOR GENERATING AND SUPERHEATING STEAM AND AN APPARATUS THEREFOR.

Applicant : BATTELLE DEVELOPMENT CORPORATION, AT 505 KING AVENUE, COLUMBUS, OHIO 43201, U.S.A

Inventor : 1. DONALD ANSON.

Application No. 109|Cal|81 filed 31st January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A method for generating steam in a steam generator and superheating the steam in a superheating to a desired temperature independent of steam flow rate comprising,

generating heat from the combustion of fuel in an entrained bed combustor having relatively fine particles entrained in a fluidizing gas,

transferring heat of combustion of the fuel to the fine entrained bed particles in the combustor,

directing a selected first portion of the heated, fine entrained bed particles through and in contact with the steam generator such that heat is given up by the fine entrained bed particles to generate steam,

directing a selected portion of the heated, fine entrained bed particles through and in contact with the superheater such that heat is given up by the fine entrained bed particles to superheat the steam, and

adjusting the amount of heat generated in the combustor and the relative amounts of first and second portions directed through the steam generator and superheater to obtain the desired temperature of the superheated steam.

Compl. specn. 18 pages.

Drgs. 2 sheets.

CLASS 14C.

154039.

Int. Cl. H01v 1|00.

THERMOELECTRIC GENERATOR DEVICE AND METHOD OF FORMING SAME.

Applicant & Inventor : DR. KENNETH THORNELL WILSON, OF 846 S.E. 14TH AVENUE, OCALA, FLORIDA 32670, UNITED STATES OF AMERICA.

Application No. 168|Cal|81 filed February 13, 1981

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A thermoelectric generator device comprising a suitable substrate strip (14) of a predetermined length and width and having a plurality of spaced apart first and second thermocouple element legs (16, 18) disposed generally along its length in an adjacent relationship, characterized in that said legs are printed respectively in first and second inks composed of powdered metals, of different electrical conductivity, mixed in a suitable binder; said legs further including oppositely extending overlying printed couple portions at their ends to connect the legs of different conductivity in a manner whereby said legs are electrically coupled to define a first plurality of thermocouples (20, 22) in series; and said powdered metals being melted on said substrate to form a solid mass of said legs and couples, with an intermingling of said first and second metals at said couples.

Compl. specn. 13 pages.

Drgs. 2 sheets.

CLASS : 116H.

154040.

Int. Cl. B60p 3/28.

TRUCK CRANE.

Applicant : KOMBINAT URZADZEN MECHANICZNYCH "RUMAR-LABEDY", OF ZAKLAD DOSWIADCZALNY DZWIGOW SAMOCHODOWYCH I SAMOJEZDNYCH, UL. GALCZYNSKIEGO 6, 43-300 BIELSKO-BIALA, POLAND.

Inventor : 1. EDWARD SOSNA.

Application No. 318/Cal/81 filed March 24, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

Truck crane provided with an extension boom extended by means of the rope of lifting mechanism pending from the hook block, through a boom head and sheaves to the winch of the lifting mechanism, the said extension boom being rotatably suspended on a turntable including a supporting structure and guy ropes of the tilting mechanism, the said turntable being rotatably connected to the supporting frame mounted on truck chassis characterised in that the hook block and boom head are provided with thrust members whereas in the centre boom members there is a hydraulically controlled stop dog for locking the extension member in the required position, the length of the said member being greater than the length of the centre boom member suspended on the guy rope of the tilting mechanism on a common shaft with the sheave of the lifting rope, as well as on a spatial rod system of the said turntable including rope drums of the lifting and tilting mechanism situated on a common shaft, the said turntable being rotatably mounted on a flat supporting frame including a loading plate and connected to rear axle of the chassis through locking mechanism.

Compl. specn. 5 pages.

Drgs. 1 sheet.

CLASS 54 &amp; 185E.

154041.

Int. Cl. A23f 1/00.

AN IMPROVED PROCESS FOR RECOVERING VOLATILE AROMATICS LIBERATED FROM ROASTED AND GROUND COFFEE BEANS, FOR EMPLOYING THE RECOVERED VOLATILE AROMATICS TO OBTAIN AN INSTANT COFFEE PRODUCT.

Applicant : SOCIÉTÉ DES PRODUITS NESTLÉ S.A., P.O. BOX 353-1800 VEVEY, SWITZERLAND.

Inventor : 1. RICHARD TIEN-SZU LIU.

Application No. 450/Cal/81 filed April 29, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

An improved process for recovering volatile aromatic liberated from roasted and ground coffee beans for employing the recovered volatile aromatics to obtain an instant coffee product, comprising wetting and extracting the roasted and ground coffee beans with an aqueous extraction medium, which may simply be hot water or optionally, water-containing coffee solubles, and withdrawing an extract of water-soluble components at a temperature below 100°C, the process being characterized by

passing the aromatics-laden gases evolved by the wetting step and the extract resulting from the extraction of the prewetted coffee through a separation chamber, such as a liquid-gas cyclone separator, wherein the aromatics-laden gases entrained within the extract are separated from the extract in the said separation chamber;

passing the separated aromatics-laden gases through at least two condensers wherein the first condenser condenses and removes water and undesirable harsh, high-boiling fractions from the aromatics-laden gases and the least condenser

is maintained by classical methods, such as circulation of a cold liquid in the condenser, at a temperature of from 0°C to 5°C to condense volatile aromatics entrained with the aromatics-laden gases; and then

recovering the condensed volatile aromatics from the processing system the aromatics-laden gases not condensed by the last condenser, instead of being passed through a cold trap, are vented so as to prevent undesirable fractions contained therein from the being condensed and combined with the unprocessed coffee extract.

Compl. specn. 44 pages.

Drgs. 4 sheets.

CLASS 190B.

154042.

Int. Cl. F01d 5/14.

BLADE FOR A ROTATING MACHINE.

Applicant : KRAFTWERK UNION AKTIENGESELLSCHAFT, 433 MULHEIM (RUHR), WIESENSTR. 35, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. BEBE-TITU PURCARU.

Application No. 725/Cal/81 filed July 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A blade, for a rotating machine, the blade having a leading edge and a trailing edge and between the leading and trailing edges a convex suction side and a concave pressure side, wherein a cross-section of the blade is defined by at least four sections each of which comprises a portion of a curve of second or higher order wherein a cross-section of the blade is defined by;

(a) a first elliptical section AE which extends from the vicinity of the leading edge on the pressure side, and a second elliptical section EB which extends from the vicinity of the leading edge on the suction side;

(b) on the suction side, a first circular section BC which extends from the second elliptical section and a parabolic section CD which extends from the first circular section;

(c) a second circular section DG which is in the vicinity of the trailing edge, and which extends from the parabolic section CD and

(d) on the pressure side, a third circular section GA which extends from the first elliptical sections AE to the second circular section DG.

Compl. specn. 14 pages.

Drgs. 2 sheets.

CLASS : 65A.

154043.

Int. Cl. H03k 4/00.

A CIRCUIT ARRANGEMENT FOR SUPPLY-VOLTAGE-SYNCHRONISED SWITCHING OF VOLTAGE HALF-WAVES.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : 1. HEIMUT SCHMIDT.

Application No. 760/Cal/81 filed July 8, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

A circuit arrangement for supply-voltage-synchronised switching of voltage half-waves, comprising a controllable semiconductor switching element for connection to an alternating voltage source to be switched, and control circuitry comprising a pulse-shaping stage and respective potential-isolating means on the input and output sides, and whose input is for connection to the alternating voltage source and whose output is for connection to a control input of the semiconductor switching element wherein the semiconductor

switching element is a semiconductor relay which comprises at least one controllable semiconductor switching component, and a first opto-electronic coupling element as said output-side potential-isolating means of the control circuitry, the relay being triggerable from the zero passage of the voltage to be switched, onwards in an area of small voltage, said input-side potential-isolating means of the control circuitry being a second optoelectronic coupling element, and it being possible to provide a phase shift between the input voltage of the control circuitry and the alternating voltage to be switched.

Compl. specn. 12 pages.

Drgs. 1 sheet.

CLASS : 98G.

154044.

Int. Cl. F28f 1/10.

#### IMPROVED HEAT EXCHANGER.

Applicant : METAL BOX INDIA LIMITED (FORMERLY KNOWN AS THE METAL BOX COMPANY OF INDIA LIMITED), OF BARLOW HOUSE, 59-C, CHOWRINGHEE ROAD, CALCUTTA-700 020.

Inventor : 1. MR. RAM BACHAN PANDEY.

Application No. 796/Cal/81 filed July 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

An improved heat exchanger including an inner cupola, an outer cupola and means for circulating hot blow of air or gas between said inner cupola and outer cupola, said inner cupola being housed within said outer cupola and sealed to prevent any direct communication between them, said inner cupola being provided with a plurality of fins or baffles to prevent an unobstructed passage of cold air or gas, said inner cupola and outer cupola being designed to provide intake and outlet for the air or gas.

Compl. specn. 8 pages.

Drgs. 1 sheet.

CLASS : 68C.

154045.

Int. Cl. H02j 7/00.

A DEVICE FOR USE IN BRIDGING BRIEF MAINS FAILURES IN A VOLTAGE INTERMEDIATE CIRCUIT STATIC FREQUENCY CHANGER.

Applicant : SIEMENS AKTIENGESSELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. DIETRICH KRAMPE, 2. HANS-PETER SCHNEIDER, 3. HANS-HERMANN ZANDER.

Application No. 815/Cal/81 filed July 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A device for use in bridging mains failure in a voltage intermediate circuit static frequency changer, by means of which, by reducing the frequency of the frequency changer, kinetic energy of the inertias present in and associated with a motor or motors driven by static frequency changer can be converted to electrical energy when the device is in use, the device being operable such that the input of a voltage controller (6) which is connected to a function transmitter (82) for supplying the frequency-dependent supplied desired value and a voltage divider (32) for the actual value of the frequency changer output voltage or respectively the intermediate circuit voltage is also connected to a controller (91), in the device, which is connected to the frequency control device of the frequency changer and the input of the function transmitter (82).

Compl. specn. 11 pages.

Drgs. 1 sheet.

CLASS : 98J.

154046.

Int. Cl. F24j 3/02.

#### HIGH EFFICIENCY SOLAR CELL STRUCTURE AND A METHOD OF MANUFACTURING THE SAME.

Applicant : UNISEARCH LIMITED, OF 221-227 ANZAC PARADE, KENSINGTON, NEW SOUTH WALES, AUSTRALIA.

Inventors : 1. MARTIN ANDREW GREEN, 2. ANDREW WILLIAM BLAKERS.

Application No. 1081/Cal/81 filed September 26, 1981.

Conventional date 26th September, 1980 (PE 5773) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A solar cell comprising a body of semiconductor material having top and bottom metal contact layers, said body having two regions of different conductivity type forming a junction therebetween, namely a lower region containing a dopant of one dopant type forming a junction therebetween, in contact with the bottom metal contact layer and an upper region containing a dopant of opposite conductivity type, said upper region being separated from said top metal contact layer by a thin insulating layer, said top metal contact being configured to allow the passage of incident radiation.

Compl. specn. 11 pages.

Drgs. 2 sheets.

CLASS : 13A.

154047.

Int. Cl. B65d 85/00; 81/00.

#### A PLASTIC BAG WITH A FILLING VALVE.

Applicant : WAVIN B.V., OF 251 HANDELLAAN, 8031 EM ZWOLLE, NETHERLANDS.

Inventors : 1. ANDRE COSTING, 2. DIRK ADRIAAN VERMEER.

Application No. 1068/Cal/79 filed October 12, 1979.

Conventional date 24th September 1979 (1801/79) Ireland.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A plastic bag with a filling valve and a gas-permeable fine-materials-filtering layer preferably being located at the same bag end as the filling valve, to permit gas to escape from the interior of the bag to the exterior characterized in that the gas-permeable layer is at least partially covered by at least a non-permeable covering layer.

Compl. specn. 14 pages.

Drgs. 4 sheets.

CLASS : 72B.

154048.

Int. Cl. C06b 19/00.

#### EMULSION BLASTING AGENT SENSITIZED WITH PERLITE.

Applicant : IRECO CHEMICALS, OF SEVENTH FLOOR, KENNECOTT BUILDING, SALT LAKE CITY, UTAH, 84133, U.S.A.

Inventors : 1. WALTER B. SUDWEEKS, 2. LARRY D. LAWRENCE.

Application No. 579/Cal/80 filed 15th May 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims.

A cap-sensitive water-in-oil emulsion blasting composition comprising a water-immiscible liquid organic fuel as a continuous phase in an amount of 1% to 10% by weight based on the total composition; an emulsified aqueous inorganic oxidizer salt solution comprising water in an amount from 5% to 20% and inorganic oxidizer salt in an amount from 60% to 94%; an emulsifier in an amount from 0.2% to 5.0%; and perlite having an average particle size ranging from 100 microns to 150 microns in an amount of from 1% to 8% as a density reducing agent to reduce the density of the composition to within the range of from 0.9 to 1.4 g/cc and to render the composition cap sensitive.

Compl. specn. 15 pages.

Drgs. Nil.

CLASS : 39P.

154049.

Int. Cl. C01f 11/46.

PROCESS FOR THE PREPARATION OF CALCIUM SULPHATE ANHYDRITE.

Applicant : STAMICARBON B.V., OF P.O. BOX 10, GELEEN, THE NETHERLANDS.

Inventors : 1. CORNELIS ANTONIUS MARIA WATERINGS, 2. JOHANNES ANNA JANSSEN.

Application No. 580/Cal/80 filed 15th May 1980.

Convention date 12 Dec. 1979 (2402/79) Ireland.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

Process for the preparation of calciumsulphate anhydrite in which calcium sulphate dihydrate is recrystallized at elevated temperature using concentrated sulphuric acid, characterized in that recrystallization is performed using sulphuric acid at an  $H_2SO_4$  concentration of 40-65 wt % calculated relative to the quantity of liquid phase in the recrystallization mixture, using a temperature of between 20 and 90°C and a residence time of 5 minutes to 3 hours thereby producing calciumsulphate anhydrite with an average particle size of 0.5-20 $\mu$ .

Compl. specn. 9 Pages.

Drgs. Nil.

CLASS : 103.

154050.

Int. Cl. C23f 11/00; 13/00; 15/00 B05 17/00.

A PROCESS FOR A PREPARING A COMPOSITION FOR, INHIBITING CORROSION.

Applicant & Inventor : ALVIN JAMES CONNER, SR. OF 19 CHARLOTTE DRIVE, NEW ORLEANS, LOUISIANA 70122, UNITED STATES OF AMERICA.

Application No. 583/Cal/80 filed May 16, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A process for the preparation of a metal corrosion inhibiting composition which comprises making by mixing an aqueous concentrate containing, per 100 parts by weight of the concentrate,

- 5 to 20 parts by weight of a C8—C20 aliphatic monobasic acid,
- 0.5 to 4 parts by weight of an aminoalkylalkanolamine,
- 10 to 35 parts by weight of a mono—or poly-carboxylic acid,
- sufficient quantity of an amine as herein described which forms a water soluble salt with one of the acids present in the composition to ensure that it and the aminoalkylalkanolamine together neutralizes the acidity of the two acidic components (a)

and (c) and remains in slight excess, as herein described and optionally,

(c) 0.5 to 4 parts by weight of a lubricant as herein described.

Compl. specn. 28 pages.

Drgs. Nil.

CLASS : 32F, d.

154051.

Int. Cl. C07 c 47/00.

METHOD FOR THE MANUFACTURE OF CYCLIC MONO AND OR DIKETONES FROM CYCLIC MONO OR SESQUI TERPENES BY CATALYTIC OXIDATION.

Applicant : INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST BENGAL, INDIA; THE ALKALI AND CHEMICAL CORPORATION OF INDIA LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700071, WEST BENGAL, INDIA; CHEMICALS AND FIBRES OF INDIA LIMITED, OF CRESCENT HOUSE, 19 WALCHAND HIRACHAND MARG, BOMBAY-400 038, MAHARASHTRA, INDIA.

Inventors : 1. DR. SUMIT BHADURI AND 2. DR. MADAN MOHAN MAHANDRU.

Application No. 702/Cal/80 filed Jun 17, 1980.

Complete specification left on 25th July, '81.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims

A process for the preparation of cyclic mono and/or diketones which comprises reacting a cyclic mono or sesquiterpenoid hydrocarbon containing at least one unsubstituted methylene group adjacent to a double bond with oxygen or an oxygen containing gas in the presence of a catalyst selected from carboxylate salts and co-ordination and organometallic complexes of a transition metal.

Compl. specn. 17 pages.

Drgs. 2 sheets.

CLASS : 176F.

154052.

Int. Cl. F22 b 37/10.

STEAM GENERATORS.

Applicant : VEB DAMPFERZEUGERBAU BERLIN, OF DDR—1086 BERLIN, BEHRENSTRASSE 21/22, GERMAN DEMOCRATIC REPUBLIC.

Inventors : 1. DR-ING. DETLEF BOESE, 2. ING. KONRAD HAASE, 3. DIPL-ING. HANS-GEORG RISSLING, 4. DIPL-ING. MARTIN RUCKER, 5. DIPL-ING. GUNTER THOR.

Application No. 998/Cal/80 filed August 30, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A steam generator having a first flue and upper part of a second flue constituting steam heating surfaces built up of welded leak-proof, air-tight tubular walls and the rear wall of the first flue also forming the front wall of the second flue, in which the rear wall of steam duct housing feed-water preheater, forming first carrier panel is suspended from the rear wall of the second flue and the front wall of the duct forming the second carrier panel is suspended from steam carrier tubes of additional steam heating surfaces in the second flue and leading from a drain collector on the rear wall of the second flue to an outlet collector in air-tight cover of the second flue, the carrier tubes being arranged in gaps in additional steam heating surfaces in the second flue.

Compl. specn. 6 pages.

Drgs. 1 sheet.

## CLASS 47A.

154053.

10 Claims.

Int. Cl. C 10 b 47/00, 55/00.

IMPROVED PROCESS FOR THE PRODUCTION OF PETROLEUM CRUDE RESIDUES FROM PETROLEUM COKE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG. NEW DELHI-110 001.

Inventors : 1. SUDHIR KUMAR MUKHERJEE 2. DILIP KUMAR MUKHERJEE.

Application No. 1022/Cal/80 filed September 9, 1980.

Complete specification left 7th Nov. 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

Improved process for the production of petroleum coke from petroleum residue comprising in sequence the steps of treating the heavy hydrocarbons residues of petroleum crude with oxygen containing gases and further subjecting the blown reaction products to conventional delayed coking step to obtain the desired petroleum coke.

Compl. specn. 11 pages.

Drgs. Nil.

Provision specn. 4 pages.

## CLASS : 47A.

154054.

Int. Cl. C 10 b 47/00, 55/00.

IMPROVED PROCESS FOR THE PRODUCTION OF PETROLEUM COKE SUBSTITUTE FROM COAL PRODUCTS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG NEW DELHI-110001, INDIA.

Inventors : 1. SUDHIR KUMAR MUKHERJEE 2. DILIP KUMAR MUKHERJEE.

Application No. 1023/Cal/80 filed September 9, 1980.

Complete specification No. 7th November, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

An Improved process for the production of petroleum coke substitute from coal products by coking of characterised in that coal based heavy liquid residues obtained by thermal treatment of coal is blown with preheated oxygen containing gases at 180°—280°C and the blown reaction mass is subjected to conventional delayed coking operation.

Compl. specn. 11 pages.

Drgs. Nil.

Prov. specn. 6 pages.

## CLASS : 25B.

154055.

Int. Cl. B 28 c 1/00.

A PROCESS FOR THE PRODUCTION OF CONSTRUCTION MATERIALS.

Applicant : UNISEARCH LIMITED, OF 221-227 ANZAC PARADE, KENSINGTON, NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Inventors : 1. OWEN GRAEME INGLES, 2. NAM LIM.

Application No. 1206/Cal/80 filed October 24, 1980.

Conventional date 24th October 1979 (PE 1054/79) Australia.

Conventional date 13th June 1980 (PE 4034/80) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

A process for the production of construction materials from soils, comprising the steps of heating the soil to a temperature within the range of 450°C to 800°C sufficient to substantially destroy the property of the soil to swell with changing levels of moisture but without causing any of the soil constituents to melt; adding to the soil, either before or after the heating step, iron oxide in a form at least as finely comminuted as the soil; and introducing into, or creating within the mixture, a solution of sodium silicate, in the manner as herein described.

Compl. specn. 10 pages.

Drgs. Nil.

CLASS 140A; 32F<sub>2</sub>

154056.

Int. Cl. C07c 91/00.

A PROCESS FOR PREPARING A LUBRICANT ADDITIVE COMPRISING METAL/METAL COMPOUND METALLOID COMPLEXES.

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKELAND BLVD. WICKLIFFE, OHIO 44092, U.S.A.

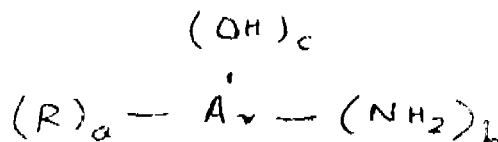
Inventor : 1. KIRK EMERSON DAVIS.

Application No. 1275/Cal/80 filed November 14, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A process for preparing a lubricant additive comprising a metal/metal compound/metalloid complex of at least one of aminophenol of the formula I of the accompanying drawings wherein

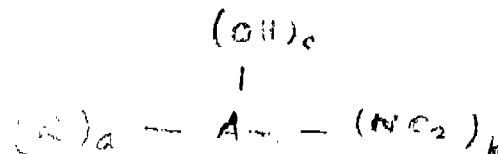


Ar is an aromatic radical having no sulfur or amino linkages between aromatic nuclei thereof;

R is a substantially saturated hydrocarbonbased radical having at least 30 aliphatic carbon atoms; and

each of a, b and c is an integer from 1 to three times the number of aromatic nuclei in Ar,

which comprises subjecting at least one corresponding nitro phenol of formula II of the accompanying drawings.



where R, a, b, c and Ar are as defined before to a reduction reaction with a known reducing agent other than sulfur to obtain corresponding aminophenol and converting the said aminophenol to the required metal/metal compound/metalloid compounds or complex and wherein said metal/metalloid/complex is as herein described.

Compl. specn. 29 pages.

Drgs. 1 sheet.

CLASS : 72C.

154057.

4 Claims.

Int. Cl. C06d 5/00.

PROPELLANT FOR BASE-BLEED GAS GENERATORS AND PROCESS FOR MANUFACTURING IT.

Applicant : "s. a. PRB" SOCIETE ANONYME, OF DE BROQUEVILLE 12, 1150 BRUXELLES, BELGIUM.

Inventors : 1. WOLFGANG KLOHN, 2. DIETER HEINZ MULLER, 3. HILTMAR SCHUBERT.

Application No. 154/Cal/81 filed February 11, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

A process for the manufacture of a propellant for base-bleed gas generators, thus for generators made of a gas-producing charge for the increase of range wherein said propellant is made up of a binder and at least one oxidant characterized by the improvement that the said process comprises in using a thermoplastically deformable elastomer as said binder mixing said thermoplastically deformable elastomer with solvents and granular solid substances, preparing a thorough blend thereof followed by removing the solvent in any known manner so as to obtain an elastomer with the formation of granulates on same, said process optionally including mixing of conventional additives as required.

Compl. specn. 15 pages.

Drgs. Nil.

CLASS 72C.

154058.

Int. Cl. C06d 5/00.

PROCESS FOR THE MANUFACTURE OF INSULATED PROPELLANT SETS FOR BASE-BLEED GENERATORS.

Applicant : "s. a. PRB", SOCIETE ANONYME, OF AVENUE DE BROQUEVILLE 12, 1150 BRUXELLES, BELGIUM.

Inventors : 1. WOLFGANG KLOHN, 2. DIETER HEINZ MULLER, 3. HILTMAR SCHUBERT.

Application No. 155/Cal/81 filed February 11, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

Process for the manufacture of insulated propellant sets for base-bleed gas generators, said propellant set consisting of a propellant containing one or more solid substances, at least one of which is an oxidant, and a binder being a thermoplastically deformable elastomer characterized in that the propellant is introduced into an insulating envelope, which as an essential component contains a thermoplastically deformable elastomer used as binder, and is forced into the envelope at increased temperature and compressed.

Compl. specn. 11 pages.

Drgs. Nil.

CLASS : 173A.

154059.

Int. Cl. B05 b 1/00.

DEVICE FOR THE SPRAYING OF A LIQUID BY MEANS OF A GAS.

Applicant : STAMICARBON B.V., OF P.O. BOX 10, GELEEN, THE NETHERLANDS.

Inventors : 1. WILLEM DE WIT, 2. WINFRIED JOHANNES WOUTERUS VERMIJS.

Application No. 354/Cal/81 filed March 30, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

Device for the spraying of a liquid by means of a gas into a fluidized bed, consisting of a liquid feed tube fitted concentrically in a gas feed tube, in which device the end face of the liquid feed tube and the inner wall of the part of the gas feed tube extending beyond this end face are chamfered at an angle of 70-90° so that between this face and this wall there is a conical channel, and this inner wall connects, via a rounded area, to the inner wall of an outflow channel fitted coaxially in respect of the liquid feed tube, of which channel the inside diameter is 1 to 1.6 times the inside diameter of the outflow opening of the liquid feed tube and 2.5 to 10 times the curvature radius of the rounded area, characterized in that the outflow channel, seen into the direction of flow, is conically narrowed.

Compl. specn. 14 pages.

Drgs. 7 sheets.

CLASS 131A.

154060.

Int. Cl. E21b 33/13.

DEVICE FOR APPLYING PLUGGING MIX TO WELL WALLS.

Applicant : 1. LENINGRADSKY GORNY INSTITUT IMENT G. V. PLEKHANOVA, OF LENINGRAD, 21 LINIA 2, USSR. 2. PROIZVODSTVENNOE GEOLOGICHESKOE OBEDINENIE TSENTRALNYKH RAIONOV "TSENTRGEOLOGIA", 2, ROSCHINSKAYA, 10, USSR.

Inventors : 1. NIKOLAI IVANOVICH NIKOLAEV, 2. LEV ALEXANDROVICH TERESCHENKO, 3. ARIAN MIKHAILOVICH YAKOVLEV, 4. VITALY IVANOVICH KOVALENKO, 5. NIKOLAI KONSTANTINOVICH LIPATOV, 6. RUBEN ARMENOVICH TATEVOSIAN 7. MIKHAIL YAKOVLEVICH TITOV.

Application No. 156/Cal/82 filed February 9, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A device for applying plugging mix to well walls, comprising installed in series and rigidly coupled to each other a piston and a head having passages for the flow of a fluid, the piston having spring-biased locking members for fixing the position of the device with respect to a drilling string; the head carrying vanes for applying plugging mix to well walls, characterized by that the vanes are made in the form of plates installed on opposite sides of the head at an angle to its axis of rotation, the vanes being radially movable with respect to the axis of rotation; a bit for drilling-off the plugging mix is being installed at the distal end of the head; said piston head and bit being of a diameter which is slightly smaller than the nominal inside diameter of the drilling string.

Compl. specn. 11 pages.

Drgs. 1 sheet.

CLASS : 129G, Q.

154061.

Int. Cl. B08b 5/00.

"A PROCESS AND APPARATUS FOR SPOT SCARFING THE SURFACE OF A METAL WORKPIECE".

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA. LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : STEPHEN AUGUST ENGEL.

Application for Patent No. 211/Del/80 filed on 20th March, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 24 Claims.

A process for spot scarfing the surface of a metal work-piece comprising :

(a) impinging a stream of pilot oxygen gas upon a portion of the workpiece which is at least at its oxygen ignition temperature, said stream of pilot oxygen gas being narrower than the width of a desired scarfing cut;

(b) causing relative motion between said workpiece and said stream of pilot oxygen gas, so as to continuously produce a pilot puddle of molten metal along a chosen path on the surface of the workpiece;

(c) contacting said pilot puddle with a high intensity stream of oxygen gas so as to spread the puddle to a pre-selected width when said puddle reaches an area to be spot scarfed on the surface of said workpiece; and

(d) scarfing said area by impinging a stream of scarfing oxygen gas on the spread puddle, said stream of scarfing oxygen gas being wider than the pilot oxygen stream.

Compl. specn. 31 pages.

Drgs. 4 sheets.

CLASS : 39 Q.

154062.

Int. Cl. C01b 33/32.

"SEMI CONTINUOUS PROCESS WITH A DISCONTINUOUS CRYSTALLISATION STEP FOR PREPARING ZEOLITE A.

Applicant : P C U K PRODUITS CHIMIQUES UGINE KUHLMANN, A FRENCH COMPANY, OF TOUR MANHATTAN-LA DEFENSE 2, 5 & 6 PLACE DE L'IRIS, 92400 COURBEVOIE, FRANCE.

Inventor : JEAN METZGER.

Application for patent No. 237/Del/80 filed on 2nd April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims.

Process for the semi-continuous preparation of a zeolite A-type silicoaluminate of constant and homogeneous quality having 95% of the crystals of a size ranging from 1 to 8  $\mu$  with the mean falling between 2 and 4  $\mu$ , and a sequestering power greater than 120 mg of calcium per gram of anhydrous product, consisting in continuously mixing, with vigorous agitation, a solution of sodium aluminate and a solution of sodium silicate so as to give a molar ratio of  $Al_2O_3/SiO_2$  of between 0.5 to 1.2, in a container in which the average retention time is between 30 seconds and 20 minutes and the temperature is between 70 and 105°C, to form a gel which is subsequently matured discontinuously over a period of 4 to 7 hours at a temperature of from 80 to 95°C, characterised in that, during maturing, the precipitated particles are kept in suspension without any shearing forces being exerted thereon, or with just enough shearing forces to ensure that the particles are kept in suspension.

Complete specification 14 pages.

CLASS : 32F<sub>1</sub>, 32F<sub>2</sub>(a).

154063.

Int. Cl. A01n 9/00, C07c 101/00.

"A PROCESS FOR THE PREPARATION OF SUBSTITUTED CARBANILIC ACID ESTERS".

Applicant : SCHERING AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANISED ACCORDING TO THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF BERLIN AND BERGKAMEN, FEDERAL REPUBLIC OF GERMANY.

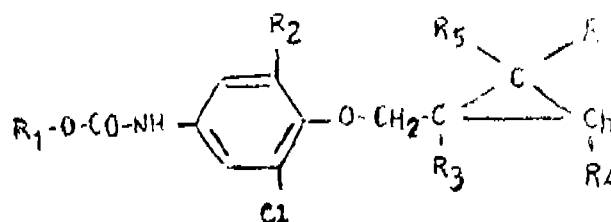
Inventors : HEINRICH FRANKE, REINHOLD PUTNER, ERICH SCHMIDT, FRIEDRICH ARNDT.

Application for Patent No. 244/DEL/80 filed on 3rd April, 1980.

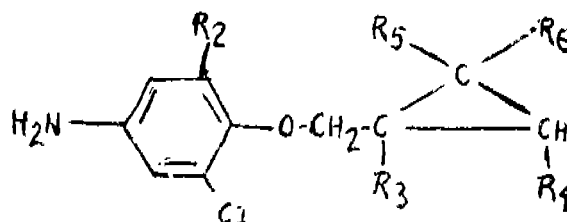
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims.

A process for the preparation of a compound of the general formula I



in which  $R_1$  represent a  $(C_1-C_6)$ -alkyl,  $(C_2-C_6)$  alkenyl or  $(C_2-C_6)$  -alkynyl radical, a chlorinated  $(C_1-C_6)$ -alkyl radical or a phenyl  $(C_1-C_5)$ -alkyl radical or a phenyl- $(C_1-C_5)$ -alkyl radical,  $R_2$  represents a hydrogen or chlorine atom,  $R_3$  represents a hydrogen or a  $(C_1-C_6)$ -alkyl radical,  $R_4$  represents a hydrogen atom, a  $(C_1-C_6)$ -alkyl radical or an unsubstituted or substituted phenyl radical,  $R_5$  represents a halogen atom, and  $R_6$  represents a hydrogen or halogen atom which comprises reacting a compound of the general formula II,



of the drawings in which  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and  $R_6$  have the meanings given above with a compound of the general formula III



of the drawings in which  $R_1$  has the meaning given above dissolved in a solvent and in the presence of a base such as herein described.

Compl. specn. 26 pages.

Drgs. 1 sheet.

CLASS : 145 F.

154064.

Int. Class : D21c 11/00.

AN IMPROVED PROCESS FOR DESILICATION OF BLACK/GREEN LIQUORS OBTAINED AS WASTE LIQUORS OF PAPER AND ALLIED INDUSTRIES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFT MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : MAHESH CHANDRA UPRETI, BANSI DHAR CHATTARAJ, LAKSHMI DATT SHARMA & SAMARENDRA NATH DUTTA.

Application for patent no. 245/Del/80 filed on 3rd April, 1980.

Complete specification left on 3rd July, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.



## (6 Claims)

An improved process for the desilication of black/green liquors obtained as waste liquors of paper and allied industries comprising treating the waste liquor with an alumina or alumina containing material in a molar ratio of 1 to 4 and to remove the silica as sodiumaluminosilicate precipitate by filtration or centrifugation.

(Provisional specification 6 pages).

(Complete specification 17 pages).

CLASS: 206 E.

154065.

Int. Class: H04r 23/00.

# METHOD FOR THE MANUFACTURE OF IMPROVED LIQUID CRYSTAL DIGITAL DISPLAY PANELS.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: SUKHWANT SINGH BAWA, VIVEK KESHAORAO KONDAWAR, SUBHASH CHANDRA & VISHNU GANESH BHIDE.

Application for patent no. 246/Del/80 filed on 5th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## (5 Claims)

A method for the manufacture of improved liquid crystal display panels comprising vacuum coating two glass plates each having electrically conducting segmental electrode patterns with a layer of evaporation grade silicon monoxide with oblique angle of evaporation of 30 and 5 degree respectively, hermetically sealing the glass plates, filling the liquid crystal material known per se there between and fixing crossed polarisers thereto characterised in that, one of the thus vacuum coated glass plates is rotated in the same plane through  $90 \pm .5$  degree and the same is coated with a further layer of evaporation grade silicon monoxide with oblique angle of evaporation of 3 deg. to 5 deg.

CLASS: 32F2(b), 55E2, 4.

154066.

Int. Class: C07d 51/38.

# PROCESS FOR THE PREPARATION OF ISOPROPYLAMINO-PYRIMIDINE HYDROXY DERIVATIVES (MINERAL BASE ROUTE).

Applicant: SOCIETE D'ETUDES DE PRODUITS CHIMIQUES, A FRENCH COMPANY OF 3, RUE THEODULE RIBOT, 75017 PARIS, FRANCE.

Inventor: ANDRE ESANU.

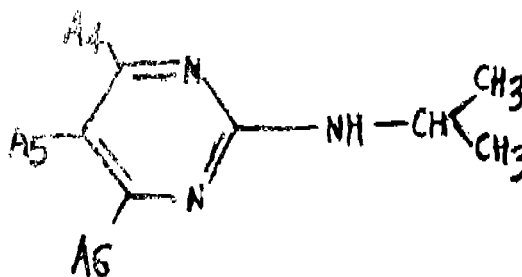
Application for patent no. 253/DEL/80 filed on 7th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2-237GI/84

## (2 Claims)

A process for the preparation of isopropylamino-pyrimidine hydroxy derivatives of the formula I

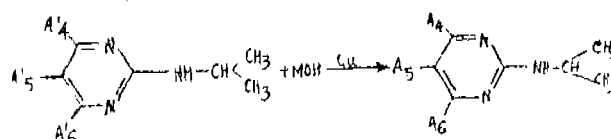


wherein each of  $A_4$ ,  $A_5$  and  $A_6$ .

—a hydrogen atom,

—a hydroxy group,

with the proviso that at least one of the  $A_4$ ,  $A_5$  and  $A_6$  is not a hydrogen atom, consisting in treating the corresponding 2-isopropylamino halogen pyrimidine by a mineral base, in water at 100—150 degree C., in the presence of copper, according to scheme A



wherein  $A_4$ ,  $A_5$  and  $A_6$  stands each for a hydrogen atom or a halogen atom, with the same proviso as above, and MOH stands for a mineral base.

(Complete specification 6 pages. Drawing 1 sheet).

CLASS: 32F2(b), 55E2, 4.

154067.

Int. Class: C07d 51/38.

# PROCESS FOR THE PREPARATION OF ISOPROPYLAMINO-PYRIMIDINE HYDROXY DERIVATIVES (HYDROGEN REDUCTION ROUTE).

Applicant: SOCIETE D'ETUDES DE PRODUITS CHIMIQUES, A FRENCH COMPANY OF 4, RUE THEODULE RIBOT, 75017, PARIS, FRANCE.

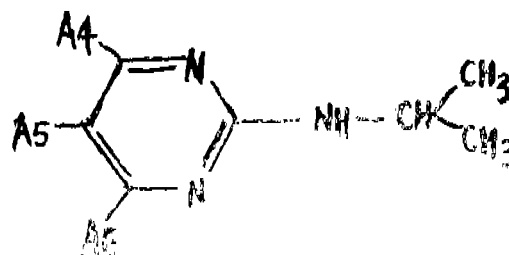
Inventor: ANDRE ESANU.

Application for patent no. 254/Del/80 filed on 7th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## (2 Claims)

A process for the preparation of isopropylamino-pyrimidine hydroxy derivatives of formula I

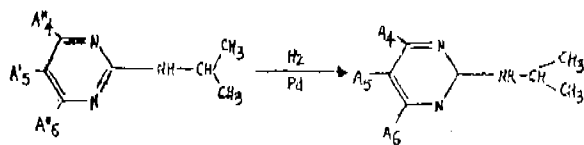


and the pharmaceutically acceptable salts thereof wherein each of  $A_4$ ,  $A_5$  and  $A_6$ , stands for :

—a hydrogen atom,

—a hydroxy group

with the proviso that at least one of the  $A_4$ ,  $A_5$  and  $A_6$  is not hydrogen atom, consisting in reducing the corresponding 2-isopropylamino aralkyloxy or alkylloxy pyrimidine by hydrogen, under pressure and in the presence of a hydrogenation catalyst such as, for instance, palladium, according to the scheme A



where  $A_4$ ,  $A_5$  and  $A_6$  stands each for a hydrogen atom or an aralkyloxy or alkylloxy radical with the same proviso as above and if desired converting the product obtained to the pharmaceutically acceptable salts thereof by known methods, such as herein described.

(Complete Specification 6 pages. Drawing one sheet).

CLASS : 195B, 92J, 49H.

154068.

Int. Class : A47j 27/08, 27/09.

#### RELIEF VALVE FOR A PRESSURE VESSEL.

Applicant : SWAN ELECTRIC INDUSTRIES, OF 2763, PAHARI BHOJLA, CHITLI QABAR, JAMA MASJID, DELHI-6, A PARTNERSHIP FIRM WHOSE PARTNERS ARE ZAMER AHMED OF 2763, PAHARI BHOJLA CHITLI QABAR, JAMA MASJID, DELHI-6; AND GOVERDHAN DAS BURMAN OF 2806, CHURIWALAN, DELHI-6, BOTH INDIAN NATIONALS.

Inventor : ZAMER AHMED.

Application for patent no. 255/Del/80 filed on 8th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### (4 Claims)

A relief valve for a pressure cooker or any pressure vessel to be fitted on the lid thereof comprising a first cylindrical body or tube with a portion thereof, preferably the intermediate portion, being larger in circumference than the rest of said body thereby constituting an upper part and a lower part with reference to the said portion of said body, said upper part being adapted to receive a cap having at least one aperture thereon being in communication with the hollow of said body through a second cylinder which is coaxially disposed in said upper part of the body, said second cylinder being in engagement with a resilient means thereby causing a valve means to close the opening of said lower part of said cylindrical body.

(Complete Specification 7 pages. Drawing 2 sheets).

CLASS : 67c 48A4.

154069.

Int. Class : H01h 31/00.

#### A HIGH-TENSION CIRCUIT BREAKER.

Applicant : DELIEAISTHOM, OF 130, RUE LEON BATH, 69611 VILLEURBANNE, FRANCE, A FRENCH BODY CORPORATE.

Inventor : DANTE NICOLOSO.

Application for patent no. 258/Del/80 filed on 9th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

#### (4 Claims)

A high-tension circuit breaker, including:

—a cylindrical cut-out chamber filled with gas, said chamber containing a rod which moves along the axis of the chamber to control opening and closing of the contact components of a circuit breaker;

—a tubular insulating support filled with said gas, said support containing a rod which moves along the axis of the support;

—detachable means for connecting one end of the rod of the support to one end of the rod of the chamber;

—detachable means for assembling one end of the support on one of the chamber so that with the rod of the support and the rod of the chamber, there is formed a gas-tight casing the gas in the chamber communicating with the support when the circuit breaker is opened and closed; and

—sealing means which are capable of stopping communication between the chamber and the support, said means operating only in a predetermined axial position of the rod of the support, said predetermined position being different from the positions occupied by said rod when the circuit breaker is opened and closed, so that after dismantling the chamber and the support and after disconnection of the rod of the chamber from the rod of the support, the chamber provided with its rod and the support provided with its rod are then both gas-tight independently from each other;

wherein the axis of the cut-out chamber is in line with the axis of the support in the assembled position; and said sealing means include :

a first protrusion on the rod of the chamber and a second protrusion on the rod of the support ;

an intermediate cylindrical part placed inside said chamber and coaxially to said rod, said part including a first outer seal and a second inner seal, said part being capable of sliding along the axis of the chamber between the rod of the chamber and an inner wall of the chamber, the first seal providing sealing between the part and said wall, said part being provided with detachable means for fixing to said end of the support and to said end of the chamber;

and a third seal at the end of said support

the second seal being applied on the first protrusion and the third seal being applied on the second protrusion, when said rod is in said predetermined position.

(Complete specification 11 pages) (Drawings 4 sheets).

CLASS 40-F & 201-C.

154070.

Int. Class : B01d 15/00.

#### PROCESS FOR THE PRODUCTION OF HEAVY METAL ION ADSORBENT.

Applicant : KONTIKI CHEMICALS & PHARMACEUTICALS PRIVATE LIMITED, OF A. K. OFFICE BUILDING, MMT ROAD, BALIAPATNAM, CANNANORE-670010, KERALA.

Inventors : (1) Dr. CHATHANATH, (2) CHAITHANVA MENON & (3) DEVI NIVAS.

Application No. 215/Mas/81 filed November 26, 1981.

Complete specification left June 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims. No drawing

A process for preparing heavy metal ion adsorbent comprising :

(a) reacting coconut shell derivative prepared according to Indian Patent Specification No. 147729 with formalin and oxaldehyde,

(b) drying the resultant material to get a dried product, and

(c) conversion of the dry product into comminuted form to obtain the adsorbent.

(Prov.—7 pages; Com.—8 pages).

CLASS : 24-(F+B) &amp; 134-D.

154071

Int. Class : F 16 d 65/00 &amp; B 60 t 1/00.

**FRICTION PAD ASSEMBLY FOR USE IN A DISC BRAKE.**

Applicant : LUCAS INDUSTRIES LIMITED, GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventors : (1) CARL MEYER, (2) HANS GEORG MADZGALLA.

Application No. 233/Mas/81 filed December 22, 1981.

Convention date : January 9, 1981. (No. 8100550 United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

(10 Claims)

A friction pad assembly for use in a disc brake comprising a backing plate to which a pad of friction material is secured, and a pad anti-rattle spring having a coiled region intermediate its ends, the coils of said coiled region being axially spaced apart from each other and engaging in a slot in the backing plate, the slot and spring presenting planar surfaces which can interengage with each other.

(Com.—13 pages; Drwgs.—2 sheets).

CLASS : 98 D, 85 Q.

154072.

Int. Class : F27b, 7/00.

**ROTARY STEAM BOILERS.**

Applicant : PAUNE MORCOV, A CITIZEN OF THE FEDERAL REPUBLIC OF GERMANY, OF 6050 OFFENBACH A. M. GEORG NUCHNER WEG 12; FEDERAL REPUBLIC OF GERMANY.

Inventor : PAUNE MORCOV.

Application for Patent No. 809/Del/78 filed on 10th November, 78.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

(9 Claims)

A rotary steam boiler comprising a single drum in which lengths of spiral piping forming a plurality of individual cells are spaced around a central rotatable hollow shaft which is provided with ducts interconnecting the cells, and which has an induction head at one end and an outlet head at the other and.

(Complete specification 12 pages. Drawing 3 sheets).

CLASS : 55E2, 4.

154073.

Int. Class : A61k 21/00.

**A PROCESS FOR PREPARING AN ANTIBIOTIC COMPOSITION.**

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

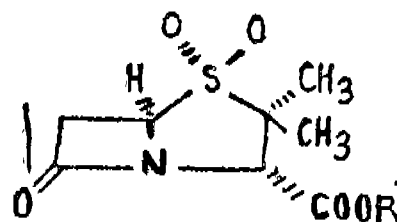
Inventor : WAYNE ERNEST BARTH.

Application for Patent No. 809/Del/79 filed on 13th November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110 005.

(6 Claims)

A process for preparing an antibiotic composition which comprises admixing 7-(D-2-[4 ethylpiperazin-2, 3-dione-1-carboxamido-(methyl)-3-desacetoxymethyl] cephaloporan acid or a pharmaceutically-acceptable salt thereof with a penicillanic acid 1, 1-dioxide derivative of formula I



or a pharmaceutically-acceptable salt thereof wherein R<sup>1</sup> is hydrogen or an ester forming residue readily hydrolyzable in vivo as hereinbefore described in a ratio of 1 : 6 to 6 : 1 by weight.

(Complete specification 22 pages. Drawing 3 sheets).

CLASS : 3A.

154074.

Int. Cl. C02c 1/00, C02d 1/00.

**"APPARATUS FOR CONTINUOUSLY AERATING A HIGH SOLIDS CONCENTRATION PSEUDOPLASTIC LIQUID SOLID MIXTURE".**

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANISED UNDER THE LAW OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventor : CARL SCACCIA.

Application for Patent No. 238/Del/80 filed on 2nd April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims.

Apparatus for continuously aerating a high solids concentration pseudoplastic liquid-solid mixture of the kind such as herein described having a total solids concentration of at least 2.5 weight percent in an aeration enclosure provided with at least one vertical rotatable shaft having at least two agitating means with at least two outwardly extending arms and provided with a gas sparging means associated with each shaft for upwardly injecting aeration gas bubbles at

the lower end of that enclosure at a multiplicity of radial locations, characterised by :

(a) said enclosure having an equipment height H to equivalent diameter D ratio  $H/D$  between 0.5 and 5.0;

(b) said at least two agitating means forming a bubble shear assembly having a maximum equivalent arm length and each agitating means having an equivalent arm frontal width W such that the  $W/R$  ratio is less than 0.1;

(c) a system maximum equivalent arm length R being at least 25 per cent of the enclosure equivalent diameter D;

(d) said agitating means being vertically spaced from each other such that the ratio of the arm frontal width E to shearing vertical spacing S is between 0.005 and 0.04;

(e) the radius of the outermost radial location of gas bubble injection being at least 40 percent of the maximum equivalent arm length R, in which

The enclosure equivalent height H stands for the arithmetic average liquid-solid mixture depth in the enclosure,

The enclosure equivalent diameter D is determined in accordance with the equation,

SEE COPY

$$D = \left[ \frac{4A}{N \Pi} \right]^{\frac{1}{2}}$$

in which

A equals the enclosure arithmetic average cross-sectional area (from top to bottom) and

N equals the number of bubble shear assemblies in the enclosure;

The maximum equivalent arm length R refers to the arithmetic average length of the longest two outwardly extending arms in the transverse direction of the enclosure;

The equivalent arm frontal width W refers to the arithmetic average frontal width of each arm on each agitating means; and

The system maximum equivalent arm length R is determined in accordance with the equation

$$R = \left[ \frac{\sum R^2}{N} \right]^{\frac{1}{2}}$$

in which

The numerator equals to the sum of the squares of the maximum equivalent arm lengths R for each shear assembly in the enclosure, and N is again the number of bubble shear assemblies in the enclosure.

Compl. specn. 39 pages.

Drgs. 6 sheets.

CLASS : 32F<sub>1</sub> & 55 D<sub>2</sub>.

154075.

Int. Cl. C07 25/00, A01 n 9/34.

"AN IMPROVED METHOD FOR THE HYDROLYSIS OF CHLORO-DDT TO OXO-DDT".

Applicant : HINDUSTAN INSECTICIDES LIMITED, HANS BHAVAN, WING-I, GROUND FLOOR, BAHADUR SHAH ZAFAR MARG, NEW DELHI-110 002.

Inventor : AKHILESH KUMAR BHATNAGAR, SURESH MOHAN AND BAL KISHAN MATHUR.

Application for Patent No. 261/Del/80 filed on 10th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims.

An improved method for the hydrolysis of 1, 1 bis (4-chlorophenyl) 1, 2, 2, 2-tetra chloro ethane (chloro DDT) to 1, 1, bis-(4-chlorophenyl) 2, 2, 2-trichloroethanol (OXO-DDT), comprising hydrolysis by 50% aqueous halo-organic acid of general formula  $R-C_{2n}-COOH$  wherein R is hydrogen atom, methyl group or ethyl group and at least one X is chloro or bromo group; at temperature ranging from 120-125°C for periods, ranging from 8 to 14 hours.

Compl. specn. 6 pages.

Drgs. 1 sheet.

CLASS : 172D<sub>7</sub>

154076

Int. Class : B65h 54/00

"A TENSION ABSORBER FOR YARN WINDING MACHINE".

Applicant : NARESH CHANDRA VASHISTHA, Indian, C-6/93, Lawrence Road, Delhi-110035.

Inventor : NARESH CHANDRA VASHISTHA.

Application for patent no. 284/Del/80 filed on 21st April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A tension absorber for improved yarn winding machine comprising a circular spring fitted in a geared cup and the one end of the spring fixed in the cup, the other end of the spring being fitted on a cylindrical piece having an angled plate fixed on its top so as to move the ball device in which the spring works as a 'Tension Absorber' when the ball device is stopped depending on the yarn position.

(Complete specification 5 pages.—Drawing 4 sheets.

CLASS : 5D

154077

Int. Class : C12k 1/00

"COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventor : SUDHEER DATTATRAYA WACHASUNDER.

Application for patent no. 313/Del/80 filed on 28th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claim

An improved air spora sampler device comprising of a slide holder to hold an adhesive coated microscope slide at an inclined angle to the air stream, the slide holder being attached to a wind vane horizontally with a bar mounted on a vertical shaft fixed on to a basal frame and provided with a removable rain guard as a means for protection from rain of the slide.

Complete specification 8 pages. Drawing 1 sheet.

CLASS : 129 Q, 72 C

154078

7 Claims

Int. Class : B 23K, 25/00

**METHOD OF WELDING METAL PIPE SECTIONS WITH EXPLOSIVES".**

Applicant : C-I-L. INC., a corporation of Canada, of 630 Dorchester Blvd. West, Montreal, Quebec, Canada.

Inventor : Stephen Macmillan Istvanffy &amp; Vonne Duane Linsc.

Application for Patent No. 317/Del/80 filed on 29th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**8 Claims**

A method of welding together a pair of metal tube sections comprising :

(a) Positioning the ends of two metal tube sections together in male/female telescoping relationship, the female tube end being flared outward at an acute angle to the wall of the tube and the male tube end being in contact with an inside circumference of the said female flared tube end,

(b) placing a first continuous substantially band-like charge of a welding explosive against and around the exterior surface of the said female flared tube end,

(c) placing a second continuous substantially band-like charge of welding explosive against and around the interior surface of the male tube end so that the two explosive bands are in a position substantially concentric and adjacent on opposite sides of the telescoped region,

(d) providing initiating means for each of said welding explosive charges, said initiating means comprising a continuous elongated, cord-like charge of high explosive having a velocity of detonation at least 50% greater than the velocity of detonation of said welding explosive charges, the said elongated initiating charges resting in initiating contact with the edge of each charge at a point closest to the narrow diameter of said female flared pipe section, and

(e) detonating the said welding charges simultaneously by the initiation of each of said cord-like initiation charges at a single initiation point on each cord-like charge, the initiation points being superimposed and opposite one another, the resultant detonation shock front from each of said welding charges moving around the pipe while maintaining a large angle to the tube axis to drive together said female flared section and said male tube and to form a welded connection.

Complete specification 19 pages. Drawing 1 sheet.

CLASS : 85K

154079

Int. Class : F27b 15/00

**"BED PLATES FOR FLUIDISED BEDS FOR COMBUSTION OF SOLID FUEL".**

Applicant : Saraswati Industrial Syndicate Limited, of Yamuna Nagar-135,001, Haryana, India an Indian Company.

Inventor : PERINGANDUR KRISHNAN HARIHARAN.

Application for patent no. 319/Del/80 filed on 1st May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

A bed plate for carrying out combustion of solid fuel in a fluidized bed characterised in that a base plate is provided tightly secured on top of an air chamber or trough, said base plate being fitted with a plurality of stub nozzles having lateral air holes, said stub nozzles being arranged in longitudinal and lateral rows on the said base plate and supported horizontally over the said air chamber or trough, means such as a duct being fitted near the lower end of the air chamber or trough for supplying combustion air to the said air chamber or trough, means for supplying a fuel gas to the stub nozzles and dampers provided with in and between the walls of the air chamber or trough for controlling flow of combustion air from the air chamber to the stub nozzles.

Complete specification 10 pages. Drawing 1 sheet.

CLASS : 87D

154080

Int. Class : A63b 67/18

**"INTEGRALLY-MOULDED SHUTTLECOCK SKIRT AND A SHUTTLECOCK HAVING SUCH A SKIRT"**

Applicant : DUNLOP LIMITED, a British Company of Dunlop House, Ryder Street, St. James's, London SW1Y 6PX, England.

Inventor : FRANK WILLIAM POPPLEWELL.

Application for patent no. 320/Del/80 filed on 1st May, 1980.

Convention date 10th May, 1979/79 16289 (G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**21 Claims**

An integrally-moulded shuttlecock skirt having an end ring from which an array of diverging stems extends to form a generally conical skirt structure, the skirt being composed of an upper skirt and a lower skirt, the lower skirt being furthestmost from the end ring and constituting the vane area of the skirt and the surface of the lower skirt being formed of a series of connected half leaves and complementary-shaped part half leaves, each stem in the vane area supporting a half leaf to one side and a part half leaf to the other side, whereby a visual effect of overlapping leaves is achieved, each said half leaf being separate from its associated part half leaf along part of the boundary line where they would otherwise appear to overlap, the separated portion of each half leaf being in a different plane to its corresponding separated portion of a said part half leaf.

Complete Specification 18 pages. Drawings 2 sheets.

CLASS : 146D1

154081

Int. Class : F21i 15/04

**"A DEVICE TO STUDY THE BEHAVIOUR OF LIGHT RAYS".**

Applicant : Dr. Avinash Puri Goswami, Indian National 15/210, Dudhwala Bungalow, Civil Lines, KANPUR-208 001.

Inventor : AVINASH PURI GOSWAMI.

Application for patent no. 321/Del/80 filed on 1st May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 1 Claim

A device for studying the behaviour of light rays comprising an instrument box with open top and open side, a source of light inside the box at the side remote from the open side, an opaque partition spaced from the light source and parallel to said open side, said partition having an aperture covered by a flat glass, a cover removable fitted over the box, said cover having an aperture in its side wall covering the open side of the box, said aperture being covered by tissue paper, aperture size changing slide slidably fixed on said side wall of the said cover, the top wall of said cover having an aperture is spaced from said side wall of said cover colour filter slidably fitted in said aperture in said top wall of said cover, said top wall of the cover having apertures above the light source for ventilation, a protractor fitted to the centre of side wall of the cover adjacent to said side wall of the cover, a weight suspended freely from the centre of the protractor, the said box with the cover being suspended over a pulley so as to be adjustable in height, light emerging from the instrument is perceived monocularly by a view-box having two apertures for the recording eye only, one aperture is placed just in front of the recording eye and the other aperture at fixed distance in front of the recording eye, on which provision is made for insertion of graduated slide made on transparent material.

Complete Specification 7 pages. Drawing 2 sheets.

CLASS : 113I

154082

Int. Class : F21q 1/00

"TAIL LAMP FOR USE WITH A RAILWAY VEHICLE".

Applicant : DIRECTOR GENERAL, Research Designs & Standards Organisation, Government of India, Ministry of Railways, Lucknow-226011, India, an Indian national.

Inventor : STAYENDRA KUMAR.

Application for patent no. 323/Del/80 filed on 2nd May, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A tail lamp for use with a railway vehicle or coach comprising a chamber for removably supporting a light source therein, the front side of said chamber extending into a hood and having a lens supported therein, the back wall of said chamber having a bracket on the outer surface characterized in that said light source, is supported off centre on a support, the height of the centre of the flame of the light source being coincident with the focal height or radial centre of the lens.

Complete specification 7 pages. Drawing 1 sheet.

IND. CLASS : 154 H

154083

INT. CLASS : D061—1/00

TITLE : NOVEL DISPERSE PRINTING PASTE FOR PRINTING VARIOUS TEXTILE SUBSTRATES AND PROCESS OF PRINTING THEREWITH.

Applicant : THE ARVIND MILL LIMITED, AN INDIAN COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, OF NARODA ROAD, AHMEDABAD-380 025, GUJARAT, INDIA.

Inventor : GHANSHYAM DAS JASUIA, TUSHAR KRISHNACHANDRA DEB AND JAYVADAN JASHVANTILAL SHROFF.

Application NP. 36/BOM/1981 filed on Feb. 6, 1981. Comp. After Prov. Left on Mar 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office, Bombay Branch.

## 6 Claims

A disperse printing paste comprising thickener, one or more disperse dyestuffs, and one or more additives selected from the group consisting of oily chemicals such as coconut oil, groundnut oil, palm oil, rapeseed oil, corn oil, sesame oil and cottonseed oil and chemicals which have both hydrophilic and oleophilic groups such as sulphated products of the aforesaid oils.

Prov. Specn. 7 pages. Drg. Nil.

Comp. Specn. 17 pages. Drg. Nil.

CLASS : 190D

154084

Int. Cl. : F 03 d 11/00

COMPOSITE WIND TURBINE BLADE SPAR MANDREL AND METHOD OF FABRICATING.

Applicant : UNITED TECHNOLOGIES CORPORATION OF 1, FINANCIALS PLAZA, HARTFORD, CONNECTICUT 06101, U.S.A.

Inventors : 1. WARREN HILL PINTER, 2. DALE EVANS SMITH.

Application No. 38/Cal/80 filed January 10, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A hollow one-piece cantilever mandrel for use in fabricating large wind turbine blade spars on a winding mechanism without the mandrel becoming a part of said spars which comprise a filament-reinforced resin matrix inner tubular shell having a base end and a tip end, said inner shell tapering in diameter from said base end to said tip end and comprising first and second filament-reinforced resin matrix hollow, tapered half-cylinders bonded together; a filament-reinforced resin matrix outer shell bonded to the outer surface of said inner shell, said inner and outer shells forming a tapered mandrel wall of nonuniform thickness; and fitting means on said base end and on said tip end adapted for rotatably mounting said mandrel on said winding mechanism.

Compl. specn. 10 pages. Drgs. 1 sheet.

CLASS : 69I

154085

Int. Cl. : H 04 1 11/00

A CONNECTOR MODULE.

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, AT 3M CENTER, SAINT PAUL, MINNESOTA 55144, UNITED STATES OF AMERICA.

Inventors : 1. SIDNEY JOHN BERGLUND, 2. GARY BRUCE MATTHEWS.

Application No. 1045/Cal/80 filed September 12, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A connector module for making connection between a plurality of wire pairs from a central office and a plurality of user stations for each of said wire pairs, and useful in the protecting of each said connection against incidental overvoltage, said module having an upper insulative body member having a series of transverse channels, a lower insulative body member fitting against said upper member having a series of transverse channels aligned with channels in said upper insulative body and flat plate contact elements having wire accepting U-slots in alignment with the aligned channels in said upper and lower insulative bodies characterized by the feature that said transverse channels in said upper body member are in a series of pairs, each of said pairs being crossed by a pocket, the pockets being arranged successively in alternate longitudinal rows; said transverse channels in said lower insulative body member are aligned one with one channel of each said pair of channels

in said upper body member, a narrow pocket extends across each of said aligned channels aligned with the corresponding pocket in said upper member, a wide pocket is beneath the other channel of each said pair of channels extending from said corresponding pocket, and a vertical slot extends across the lower surface of said lower member from said wide pocket to a flared opening at the front face of said lower member; and a said contact element is provided for each pair of channels in said upper body member in the form of a flat plate having a depending leg ending in a bifurcate foot, said plate being retained within said pocket in said upper member, having first and second channels respectively of said pair of channels, said plate extending into said narrow pocket in said lower member and having a third U-slot in alignment with said aligned channel, and said leg and foot fitting within said wide pocket with the opening of the bifurcate foot in alignment with said vertical slot.

Compl. specn. 12 pages. Drgs. 1 sheet.

CLASS : 129G; 127I

154086

Int. Class : B 23q 11/00; F 16 p 3/00

DEVICE FOR PREVENTING COLLISION BETWEEN PART OF THE CUTTING ARM AND PART OF THE LOADING RAMP FOR A CUTTING MACHINE.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. ERICH DROESCHER, 2. HANS PETER PFUNDNER, 3. HERWIG WRULICH.

Application No. 1214/Cal/80 filed October 25, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

Device for preventing collision between a part of the cutting arm and a part of the loading ramp in a cutting machine comprising a pivotable cutting arm pivotable at least around one horizontal axis and carrying at least one cutting head and comprising a loading ramp arranged below the cutting arm and being designed to be lifted and lowered, characterized in that a transmitter means (11) is provided for the cutting arm (1), said transmitter means (11) registering the position of the cutting arm relative to the cutting machine, and a transmitter means (12) is provided for the loading ramp (4), said transmitter means (12) registering the position of the loading ramp relative to the cutting machine, and in that said both transmitter means are in connection with a common receiver means (28) controlling a switching member (35) interrupting the downward movement of the cutting arm and the upward movement of the loading ramp in dependence on a combination of the signals of said both transmitter means.

Compl. specn. 13 pages. Drgs. 2 sheets.

CLASS : 150F

154087

Int. Cl. : F 16 l 21/00

A PIPE PART WITH A SOCKET END COMPRISING A RESILIENT SEALING BODY AND A PIPE CONNECTION EMPLOYING SAID PIPE PART.

Applicant : WAVIN B. V., OF 251 HANDELLAAN, 8031 EM ZWOLLE, NETHERLANDS.

Inventor : 1. ALBERTUS ANTHONY COSTENBRINK.

Application No. 1324/Cal/80 filed November 28, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A pipe part with a socket end, comprising a resilient sealing body, being retained by a retaining ring, snappingly engaging said pipe part, characterized in that the sealing body is firmly connected with the retaining ring, which snappingly engages in a recess in the pipe part.

Compl. specn. 11 pages. Drgs. 2 sheets.

CLASS : 59A

154088

Int. Cl. : E 03 f 11/00

AN APPARATUS FOR PULLING TOGETHER SEWER PIPES OF A LARGE DIAMETER.

Applicant : JOSEF KRINGS, OF HANS-BOECKLER-STR. 23, D-5138 HEINSBERG, WEST GERMANY.

Inventor : 1. HELLMUT HILLEMACHER.

Application No. 111/Cal/81 filed January 31, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

An apparatus for pulling together sewer pipes of a large diameter, said apparatus comprising a mobile pulling unit and a support system connected to said pulling unit for engaging an interior of a pipe and anchoring said pulling unit against movement relative to a pipe, and said support system including a double arm lever having an intermediate pivot connection with said pulling unit, said double arm lever including a lower lever arm and an upper lever arm with said lower lever arm being of a lesser length than said upper lever arm and subtended from said upper lever arm at an obtuse angle opposite to the direction of cable pull, a hook-shaped support shoe articulated on an end of each of said lever arms for engaging the interior of a pipe in which said pulling unit is positioned, and thrust means carried by said pulling means connected to said upper arm for pivoting said lever arm to a pipe wedging position.

Compl. specn. 7 pages. Drgs. 1 sheet.

CLASS : 55F

154089

Int. Cl. : C 07 g 7/02

A METHOD FOR THE PRODUCTION OF IMMOBILIZED GLUCOSE ISOMERASE.

Applicant : CPC INTERNATIONAL INC., AT INTERNATIONAL PLAZA, ENGLEWOOD CLIFFS, NEW JERSEY 07632, U.S.A.

Inventor : 1. SOICHIRO USHIRO.

Application No. 127/Cal/81 filed February 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims

A method for the production of immobilized glucose isomerase, comprising adding a non-ionic surfactant to a cultured material obtained by culturing a glucose isomerase producing microorganism or moist cells obtained herefrom, or an aqueous suspension thereof, autolysing the cultured material, the moist cells or the aqueous suspension of cells in order to solubilize the glucose isomerase without solubilizing the polysaccharides present and thereby obtain a glucose isomerase solution containing no or almost no polysaccharides, then contacting said glucose isomerase solution with a carrier which is capable of adsorbing glucose isomerase and adsorbing said glucose isomerase on said carrier.

Compl. specn. 17 pages. Drg. Nil.

CLASS : 142

154090

Int. Cl. D 06 p 5/02

PROCESS FOR THE PRODUCTION OF COLORFUL AND FIGURATIVE DESIGNS OF SHAPED SYNTHETIC RESIN ARTICLES.

Applicant : DYNAMIT NOBEL AKTIENGESELLSCHAFT OF 521 TROISDORF, BENZ. KOLN., WEST GERMANY.

Inventors : 1. KARL-HEINZ SPIESS, 2. HARALD STOCK.

Application No. 172/Cal/81 filed February 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 17 Claims

Process for the production of colorful and figurative designs of shaped synthetic-resin articles with the use of dyestuffs, characterized in that the shaped articles are dyed at least partially with dyestuffs variable by ionizing rays and then are exposed to ionizing rays in selected zones corresponding to the figurative design until color changes are achieved.

Compl. specn. 21 pages. Drgs. 3 sheets.

CLASS : 32F<sub>1</sub>; 32F<sub>3</sub>b; 60X<sub>2</sub>d.

154091.

Int. Cl. C07d 51/78.

### PROCESS FOR THE PREPARATION OF METHYL-QUINOXALINE-1, 4-DIOXIDE DERIVATIVES.

Applicant : EGYT GYOGYSZERVEGYESZETI GYAR OF 30-38, KERESZTURI UT, BUDAPEST X., HUNGARY.

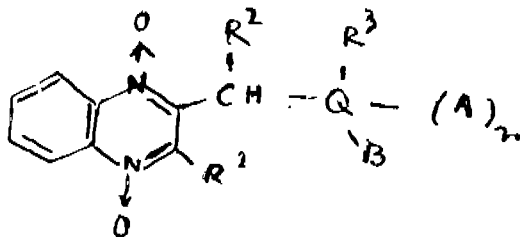
Inventors : 1. DR. PAL BENKO, 2. DANIEL BOZSING 3. JÁNOS GUNDEL, 4. DR. KAROLY MAGYAR.

Application No. 564/Ca/81 filed May 27, 1981.

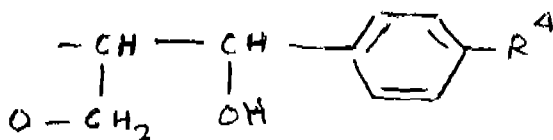
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 5 Claims.

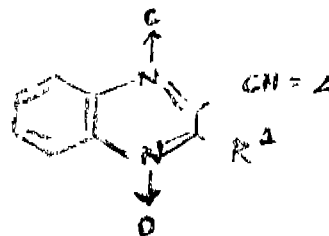
A process for the preparation of quinoxaline-1, 4-dioxide derivatives of the general formula (I), shown in the accompanying drawings.



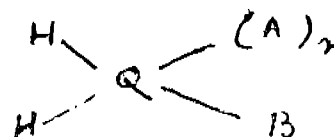
wherein R<sup>1</sup> stands for hydrogen or lower alkyl, R<sup>2</sup> is hydroxy and R<sup>3</sup> is hydrogen, or R<sup>2</sup> and R<sup>3</sup> form together a valence bond, Q represents a carbon or nitrogen atom, A is hydrogen, hydroxymethyl, lower alkyl, phenyl-lower alkyl or lower alkoxy, n is 0 or 1, B stands for nitro, cyano, halogen, optionally halogeno- or nitro-substituted phenyl, pyridyl, quinolyl or a group of the general formula (IV), of the drawings, in which R<sup>4</sup> is hydrogen or lower alkylcarbonyl and R stands for nitro, amino, trifluoromethyl, lower alkyl or lower alkoxy, or A and B, together with the adjacent carbon atom to which they are attached, form a 5- or 6-membered, optionally substituted hetero-cyclic ring which contains not more than two identical or different nitrogen and/or oxygen and/or sulfur heteroatom(s) and optionally one or two exocyclic oxygen atom(s) and/or sulfur atom(s) and/or imino-group(s), with the proviso that if Q represents a nitrogen atom, n is 0 and B stands for a group of the general formula (IV),



and with the further proviso that if Q represents a carbon atom, B is other than a group of the general formula (IV) mentioned above, and biologically acceptable acid addition salts of the compounds of the general formula (I) with basic character, which comprises reacting, in the presence of a basic catalyst, a compound of the general formula (II), of the drawings,



wherein Z represents an oxygen atom or two lower alkoxy groups and R<sup>1</sup> is as defined above, with a compound of the general formula (III), of the drawings



wherein Q, A, B and n are as defined above.

Compl. specn. 32 pages.

Drgs. 1 sheet.

CLASS : 51D.

154092.

Int. Cl. B26b 21/00.

### A SAFETY RAZOR MADE ENTIRELY OF A SYNTHETIC PLASTIC MATERIAL.

Applicant & Inventor : SURENDRA KUMAR ANAND, OF FLAT NO. 2, 7/1A, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 020, WEST BENGAL, INDIA.

Application No. 165/Ca/81 filed February 12, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 7 Claims.

A safety razor made entirely of a synthetic plastic material having its handle and base plate provided with projections moulded in one integral piece, a top plate joined with the said base plate at one of their lateral sides by a pair of hinges, the top plate being adapted to be laid over the base plate flexing the hinges and fastened to the base plate by mutually engaging, fastening means formed on the adjacent ends of the top plate and the base plate.

Compl. specn. 8 pages.

Drgs. 1 sheet.

CLASS : 5C.

154093.

Int. Cl. A01f 7/00.

### THRESHING MACHINE FOR STANDING CEREAL CROPS.

Applicant : GEORGES RENAUD, OF IBIS AVENUE DES AILANTES 94100 SAINT MAUR, FRANCE AND PRECICULTURE S.A., OF 291 AVENUE DE LATTRE DE TASSINGLY 51230 FERRE CHAMPENOISE, FRANCE.

Inventor : 1. GEORGES RENAUD.

Application No. 1391/Ca/81 filed December 7, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent office Calcutta.



## 15 Claims

A threshing machine for threshing standing cereal crops, comprising a catcher casing for collecting the grains, rotary threshing means extending across the open front of the catcher casing and a counter-board cooperating with said threshing means, said threshing means including elongate beaters for engaging heads of standing cereal and pressing them against said counter-board, said beaters comprising outwardly facing brushes for pressing said heads of cereal against said counter-board and pulling the grains off the heads, said brushes comprising resilient bunches mounted on rigid backing members.

Compl. specn. 19 pages.

Drgs. 6 sheets.

CLASS: 83A.

154094

Int. Class: A 61 k 9/00.

PROCESS OF PREPARING NOVEL PALM LOZENGES.

Applicant: SANATAN BHAR, OF 4, DUTTAPARA JANE, CALCUTTA-700006.

Inventor: DEBABRATA BHAR.

Application No. 149/Cal/83 filed February 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for preparation of novel palm Lozenges characterised by incorporating 25 to 30 parts Palm Gur to a mixture of 25 to 30 parts of Glucose and 50 to 40 parts of sugar and boiling the mixture upto a temperature between 110°C to 115°C and then adding .3 to .5% of the total mixture a flavouring agent, mixing it thoroughly and pouring the resultant product into steel pate to cool down and solidify and when the product reaches semi solid state cutting it into pieces of desired shapes and sizes by means of dies

Compl. specn. 5 pages. Drgs. Nil.

CLASS: 94A.

154095

Int. Class: B 02 c 4/00.

BOWL MILL FOR EFFECTING THE PULVERIZATION OF MATERIAL.

Applicant: COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor: 1. THEODORE VINCENT MALISZEWSKI, JR.

Application No. 376/Cal/80 filed April 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A bowl mill for effecting the pulverization of material comprising:

separator body;

b. a grinding table supported within said separator body for rotation relative thereto;

c. rotating means for effecting the rotation of said grinding table; characterized by that:

d. at least one pair of grinding rolls is mounted within said separator body in spaced relation one to another and in juxtaposed relation to said grinding table, said pair of grinding rolls coacting with said grinding table to effect the pulverization of material disposed on said grinding table;

e. material supply means supported in said separator body, said material supply means being connectable to a source of material to be pulverized and being operative to effect the discharge onto said grinding table of the material to be pulverized;

f. air supply means formed in said separator body, said air supply means being connectable to an external source of air, said air supply means terminating in at least one discharge outlet comprising an annular space formed between the inner surface of said separator body and the circumference of said grinding table at a location intermediate said pair of grinding rolls, said air supply means being operative to discharge a flow of air through said annular space into the interior of said separator body;

g. at least one air deflector means disposed between said pair of grinding rolls in the path of flow of the air exiting through said annular space, said air deflector means including a frame-like structure lined with an abrasion resistant material, said frame-like configuration being of the air foil type to deflect over said grinding table the flow of air exiting from said annular space, said frame-like structure including at least a first side wall and a second side wall joined to said first side wall, said first side wall extending substantially perpendicular to the plane of rotation of said grinding table and terminating in a free edge, said second side wall extending substantially parallel to the plane of rotation of said grinding table and terminating in a free edge; and

h. support means for supporting said air deflector means in abutting relation to the inner surface of said separator body with said first side wall located in spaced relation to one of said pair of grinding rolls and with said second side wall located in spaced relation to the other one of said pair of grinding rolls so that said free edge of said first side wall is operative as a leveler to ensure the presentation of a uniform layer of material on said grinding table to one of the pair of grinding rolls and so that said free edge of said second side wall is spaced at a sufficient distance from said other one of said pair of grinding rolls to inhibit the development of an area of stagnant air there-between.

Compl. specn. 24 pages. Drgs. 2 sheets.

CLASS: 98A.

154096

Int. Class: B 60 h 1/00.

HEATING APPARATUS FOR HEATING THE SERVICE CAB OF A MACHINE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.

Applicant: KLOCKNER-HUMBOLDT-DEUTZ AKTIENGESELLSCHAFT, OF 5000 COLOGNE 80, WEST GERMANY.

Inventors: 1. DIPL.-ING. GOTTFRIED MOSER, 2. DIPL.-ING. HANSJURGEN GROSS.

Application No. 384/Cal/80 filed April 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

Heating apparatus for heating the service cab of a machine operated by an internal combustion engine, for example for heating the driver's cab of a vehicle, the apparatus comprising a pump, a heat generator, a heat exchanger, in which:

(a) the pump is arranged to draw oil from the engine lubrication circuit (for example from the engine sump) and to pump the oil under pressure to a supply line;

(b) the heat generator is connected to the supply line and serves to convert some of the dynamic energy of the oil into heat energy to dissipate largely the pressure of the oil produced by the hydraulic pump so as to heat the oil; and

(c) the heat exchanger is disposed in the service cab and is connectable both to the heat generator to receive heated oil therefrom and to a return line leading back to the engine lubrication oil circuit.

Compl. specn. 11 pages. Drgs. 1 sheet.

CLASS : 71D.

154097

Int. Cl. E 21 c 25/00.

MOVABLE BUCKET-WHEEL EXCAVATOR.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. KLAUS WIMMER, 2. WOLFGANG LUBRICH.

Application No. 1338/Cal/80 filed December 2, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

Movable bucket-wheel excavator comprising a lower chassis and a superstructure arranged thereon, said superstructure comprising a turn-table rotatably supported on the lower chassis for pivotal movement around a central vertical axis and having non-rotatably connected thereto a discharge arm and comprising a dredge arm carrying the bucket-wheel, the weight of the dredge arm being at least partially compensated by a counterweight and the dredge arm being rotatably supported for pivotal movement around a vertical axis relative to the lower chassis as well as relative to the discharge arm, characterized in that the dredge arm (22) is pivotally supported on the turn-table (3) for the discharge arm for being rotated around an axis (32) which is offset relative to the pivotal axis (4) of the turn-table (3) for the discharge arm in the direction facing off the discharge end (9) of the discharge arm (6).

Compl. specn. 13 pages. Drgs. 2 sheets.

CLASS :

154098

Int. Class : C 22 b 11/04.

A PROCESS FOR PERCOLATION LEACHING OF PRECIOUS METALS SUCH AS GOLD AND/OR SILVER ORES.

Applicant : HAROLD J. HEINEN; GENE E. McCLELLAND AND ROALD E. LINDSTROM OF 4990 GOLDEN SPRINGS DRIVE, RENO, NEVADA 89509, U.S.A.; 49 E. QUAIL STREET, SPARKS, NEVADA 89431, U.S.A.; AND 1301 YORI AVENUE, RENO, NEVADA 89502, U.S.A.

Inventors : 1. HAROLD J. HEINEN, 2. GENE F. McCLELLAND, 3. ROALD E. LINDSTROM.

Application No. 51/Cal/81 filed January 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A process for percolation leaching of precious metals such as gold and/or silver values from a feed material comprising or consisting of low-grade gold or silver ores, tailings or wastes which process comprises the steps of :

(1) admixing the feed material with a binding agent such as herein described and an amount of water sufficient to wet or dampen, but not to inundate, the feed material,

(2) mechanically manipulating the admixture by conventional means to effect agglomeration of fines in the feed material,

(3) aging the admixture at ambient conditions for a time sufficient to provide the resulting porous agglomerates with strength sufficient to withstand further wetting without substantial distintegration, and

(4) subjecting the aged admixture to percolation leaching to selectively leach gold and/or silver values therefrom.

Compl. specn. 15 pages. Drgs. Nil.

CLASS : 94 H.

154099

Int. Class : B 02 c 4/02.

A VERTICAL ROLLER MILL WITH A GRINDING TABLE ROTATING ABOUT A VERTICAL AXIS AND AT LEAST TWO GRINDING ROLLERS ROTATING ABOUT STATIONARY SHAFTS.

Applicant : F. L. SMITH & CO. A/S., OF 77, VIGERSLEV ALLE, LK-2500 VALBY COPENHAGEN, DENMARK.

Inventors : 1. KNUD TONI ANDERSEN, 2. ERIK CHRISTIAN PARMO CHRISTENSEN.

Application No. 107/Cal/81 filed January 31, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A vertical roller mill with a grinding table rotating about a vertical shaft and at least two grinding rollers rotating about stationary shafts, the said grinding roller being forced against the grinding table by means of draw bars anchored in the foundation of the mill, characterised in that all the roller shafts (4) are attached at their end facing the mill axis to a common central frame (5), whereas the draw bars (9) are pivotally connected to the outer ends of the shafts.

Compl. specn. 5 pages. Drgs. 1 sheet.

CLASS : 172D &amp; C.

154100

Int. Cl. D 01 g 27/00; D 01 h 5/00.

METHOD AND APPARATUS FOR THE PREPARATION OF JUTE FIBRES.

Applicant : JAMES MACKIE & SONS LIMITED, OF ALBERT FOUNDRY, BELFAST, NORTHERN IRELAND, BT12 7ED.

Inventors : 1. ROBERT JOHN HUNT, 2. THOMAS FLANAGAN.

Application No. 118/Cal/81 filed February 2, 1981.

Conventional date 8th February, 1980 (8004307) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A method of preparing carded jute fibres for spinning in which the fibres in the form of a flat sliver having a width at least fifteen times its thickness are passed through at least two consecutive drawing passages carried out by means of chain intersecting drawing machines, the drafted sliver being criped after each passage and fed into a container.

Compl. specn. 20 pages. Drgs. 4 sheets.

CLASS : 190C; 68E; 63G.

154101

Int. Class : H 02 k 7/18, 17/42. F 01 d 15/00.

A TURBINE SET FOR GENERATING AND SUPPLYING ELECTRICITY AT A CONSTANT FREQUENCY TO A NETWORK.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : 1. FRANZ SPIRK.

Application No. 131/Cal/81 filed February 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A turbine set comprising an axial flow turbine which is traversed by a flowing medium and has non-adjustable blades (propeller turbine) coupled to a generator which feeds a constant frequency power distribution network via a frequency-

controllable power converter, characterized in that in a water turbine set the generator is operated with a frequency lower than 20 Hz and feeds the power distribution network at a constant frequency of 50 or 60 Hz via a frequency-controllable direct converter, and that the speed of rotation of the water turbine set is adjustable continuously according to the optimal efficiency and the power to be delivered.

Compl. specn. 15 pages. Drgs. 3 sheets.

CLASS : 27C & I & M.

154102.

Int. Class : E 04 c 3/38, E 04 b 1/345; E 04 g 11/04.

**METHOD OF CONSTRUCTION OF A STRUCTURE OF CAST-IN-SITU REINFORCED CONCRETE ENVELOPES ON INFLATABLE CENTRING AND MEANS IMPLEMENTING THE SAME.**

**Applicant :** TREST LENINGRADORGSTROI GLAVLE-NINGRADSTROYA, OF LENINGRAD, NABEREZH-NAYA REKI MOTKI, 122, USSR.

**Inventors :** 1. BORIS IVANOVICH PETRAKOV, 2. ANATOLY VASILIEVICH ORLOV, 3. LEV VOLFOVICH PRATEIN, 4. IRAIDA ALEXANDROVNA RESHETNIKOVA, 5. EVGENY IVANOVICH KUZMIN, 6. GEN-NADY VASILIEVICH SKRYABKOV, 7. IVAN ALEXEE-VICH TERESCHENKO, 8. VALENTINA MIKHAILOVNA LABETSKAYA, 9. VLADIMIR MIKHAILOVICH KRYZH-NOV, 10. VALENTIN IVANOVICH KISELEV.

Application No. 179/Cal/81 filed February 17, 1981.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims

A method of construction of a structure of cast-in-situ reinforced concrete envelope comprising formation on inflatable centring of an envelope shape as a flat slab of concrete mix and reinforcement, lifting the envelope by means of the inflatable centring, and warming-up of the concrete, wherein the envelope is insulated on the outside to produce an enclosed cavity there-above, and the concrete is warmed up on the same side by recirculating the heat carrier within the cavity.

Compl. specn. 9 pages. Drgs. 1 sheet.

### OPPOSITION PROCEEDINGS

An opposition has been entered by Sri Lanka Tea Board and Colombo Commercial Company (Engineers) Limited to the grant of a patent on application No. 152584 made by Shri Srinivasagam Pillai Ramasamy.

### CLAIM UNDER SECTION 20(1) TO PROCEED AS AN APPLICANT OR JOINT APPLICANT

#### (1)

The claim made by Kabelmetal Electro GmbH under Section 20(1) of the Patents Act, 1970, to proceed the application for Patent No. 150642 (907/Cal/78) in their name has been allowed.

#### (2)

The claim made by Aumund-Fordererbau GmbH Maschinenfabrik under Section 20(1) of the Patents Act, 1970, to proceed the application for Patent No. 151451 (802/Cal/79) in their name has been allowed.

### PATENTS SEALED

#### (1)

151487 151497 151499 152053 152280 152291 152292 152293 152295 152302 152304 152305 152306 152310 152311 152312 152314 152316 152318 152319 152320 152321 152322 152326 152327 152588

#### (2)

143634 143638 143647 143771 144064 144066 144103 144167 144168 144180 144362 144462 144489 144490 144724 144736 144749 144755 144762 144766 144773 144780 144785 144797 144806 144816 144841 144864 144865 144869 144870 144877 144890 144896 144950 144956 144988 14499 4144995 145000 145009 145031 145055 145060 145064 145074 145075 145102 145105 145107 145108 145110 145112 145123 145131 145133 145135 145152 145160 145234

### AMENDMENT PROCEEDINGS UNDER SECTION 57

#### (1)

The amendments proposed by The Boots Company Limited, in respect of patent application No. 151913 as advertised in Part III Section 2 of the Gazette of India dated the 18th February 1984 has been allowed.

#### (2)

Notice is hereby given that International Standard Electric Corporation, a Corporation organised and existing under the Laws of the State of Delaware, United States of America, of 320 Park Avenue, New York-10022, State of New York, United States of America, have made an application under section 57 of the Patents Act, 1970 for amendments of their drawings of their Patent No. 152651 for "A Shunt Voltage Regulation Circuit and an Electronic Circuit having the same". The amendments are by way of correction, explanation and disclaimer. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

### RENEWAL FEES PAID

123002 123030 123148 123337 123352 127185 132812 132890 133238 133284 135463 136023 136230 136287 137812 138627 138914 139945 140209 140456 140583 144180 144251 144719 144869 144870 144877 144994 145111 145196 145231 145311 145426 145588 145700 145977 146964 146975 149157 149604 149965 150004 150320 150699 150908 151297 151441 151442 151606 151732 151796 151954 151988

### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 154566. Punjab Metals, 306, Lotus House, 33-A, New Marine Lines, Bombay-400020, Maharashtra, an Indian Sole Proprietary Firm. "Cup-Saucer". 2nd July, 1984.

Class 1. No. 154034. Shriram Refrigeration Industries Limited, 19-Kasturba Gandhi Marg, New Delhi-110001, India. An Indian Company. "Compressor". 4th February, 1984.

Class 1. No. 154570. Abdul Kader Jabar Sait, 207, Poona-mallee High Road, Aminjikarai, Madras-600 029, Tamil Nadu, India, Indian National. "Stoves". 6th July, 1984.

Class 1. No. 154008. Srinivasan Gopalkrishnan, Hydrodrive, 69, Industrial Estate, Perungudi, Madras-600 096, Tamil Nadu, Indian National. "Motorised". 31st January, 1984.

- Class 1. No. 154007. Srinivasan Gopalkrishnan, Hydrodrive, 69, Industrial Estate, Perungudi, Madras-600 096, Tamil Nadu, Indian National. "Electric Motor". 31st January, 1984.
- Class 1. No. 154006. Srinivasan Gopalkrishnan, Hydrodrive, 69, Industrial Estate, Perungudi, Madras-600 096, Tamil Nadu, Indian National. "Fluid Couplings". 31st January, 1984.
- Class 1. No. 154041. Jashawantlal Kantilal, a registered Partnership firm of Jawahar Mansion, Fanaswadi, Thakurdwar Road, Bombay-400002, Maharashtra State, Manufacturers and Merchants. "Waffle Baker made Wholly of metal". 13th February, 1984.
- Class 1. No. 153355. The Jay Engineering Works Ltd., of 23, Kasturba Gandhi Marg, New Delhi-110001, India, a Company incorporated in India. "A gear box, for use in fans". 20th August, 1983.
- Class 1. No. 153905. S. K. Jain S/o. Dharm Das Jain, resident of 101/2, Hospital Road, Jaipur-1, Rajasthan, an Indian National. "Multipurpose Vise". 24th December, 1983.
- Class 1. No. 153927. S. K. Jain S/o. Dharm Das Jain, resident of 101/2, Hospital Road, Jaipur-1, Rajasthan, an Indian National. "Multipurpose Heavy Duty Vise". 29th December, 1983.
- Class 1. No. 154514. Starline Autobuilders, (a registered Partnership firm). "A motor car". 18th June, 1984.
- Class 1. No. 154260. Madho Mechanical Works (Indian Nationals) (a partnership-firm duly registered under the Indian Partnership Act of 1932), whose address is B-49, Industrial Focal point, G.T. Road, Moga-142001 (Punjab State) (India). "Wheat-Thresher". 5th April, 1984.
- Class 1. No. 154347. Rana Mechanical Works, a partnership-firm duly registered under the Indian Partnership Act of 1932 as well as registered under the Indian Registration Act of 1908, of Railway Road, Tarn Taran-143401 (District-Amritsar) (Punjab State) (India). "Wheat-Blower". 24th April, 1984.
- Class 1. No. 154546. Meera Metal Industries (a registered Partnership firm) at 32/2, Panjarpol Lane, C.P. Tank Road, Bombay-400 004, Maharashtra State, India. "P A N". 27th June, 1984.
- Class 3. No. 154343. Electronic Consortium Pvt. Limited, a company incorporated under the Companies Act, at 5A/1, 2, 3 Ansari Road, Darya Ganj, New Delhi-110 002, India. "Television Cabinet". 23rd April, 1984.
- Class 3. No. 154342. Electronic Consortium Pvt. Limited, a company incorporated under the Companies Act, at 5A/1, 2, 3 Ansari Road, Darya Ganj, New Delhi-110 002, India. "Television Cabinet". 23rd April, 1984.
- Class 3. No. 154324. Ramawater Saraogi, Indian National, of Maker Chamber V, 1412, Nariman Point, Bombay-400 071, Maharashtra State, India. "NIPPLE". 16th April, 1984.
- Class 3. No. 154440. Oswal Agro Mills Limited 107-108-Padma Tower-1, 5-Rajendra Place, New Delhi-110008, India. An Indian Company. "Soap Case". 23rd May, 1984.
- Class 3. No. 154516. Vinodral Vandravandas Barchha, an Indian of Flat No. 9B (9th floor) "NEEL KAMAL", 41, Elgin Road, Calcutta-700 020, West Bengal, India. "Handle for Container, Boxes, packings and the Like". 18th June, 1984.
- Class 3. No. 154038. Avanti India Corporation, of 20 Netaji Subhas Marg, 1st Floor, Darya Ganj, New Delhi-110002, India, an Indian Corporation. "Talcum Powder Container". 9th February, 1984.
- Class 3. No. 154541. Rajpal Plastic Industries, 303, Neelkanth, 98, Marine Drive, Bombay-400002, Maharashtra State, Indian Partnership Firm. "Container". 26th June, 1984.
- Class 3. No. 154544. Rajpal Plastic Industries, 303, Neelkanth, 98, Marine Drive, Bombay-400002, Maharashtra State, Indian Partnership Firm. "Plate". 26th June, 1984.
- Class 3. No. 154545. Rajpal Plastic Industries, 303, Neelkanth, 98, Marine Drive, Bombay-400002, Maharashtra State, Indian Partnership Firm. "Picnic Set". 26th June, 1984.
- Class 3. No. 154167. Nona Electrical Appliances Manufacturing Company, Sri Niwas, Opp: Gamdevi Maidan, Ram Maruti Cross Road No. 2, Thane-400602, Maharashtra, an Indian Partnership Firm. "Electric Grinder". 14th March, 1984.
- Class 3. No. 154043. Sanitary Systems (India), Dada Manzil, 2nd floor, 67/69, Mohmedali Road, Bombay-400003, Maharashtra, an Indian Partnership Firm. "Flushing Cistern". 13th February, 1984.
- Class 3. No. 154136. Sunil Plastic Industries, 3-B, Udyog Nagar, Goregaon West, Bombay-400062, State of Maharashtra, an Indian Partnership Firm. "Idol". 9th March, 1984.
- Class 3. No. 154058. Sanitary Systems (India), Dada Manzil, 2nd floor, 67/69, Mohmedali Road, Bombay-400003, Maharashtra, an Indian Partnership Firm. "Flushing Cistern". 17th February, 1984.
- Class 3. No. 154352. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay 400004, Maharashtra, an Indian Partnership Firm. "Pen Stand". 26th April, 1984.
- Class 10. No. 154543. Vijay Industries, Swastik Industries Compound, Ram Baug, S.V. Road, Bombay-400064, Maharashtra State, an Indian Partnership Firm. "Footwear". 26th June 1984.
- Class 10. No. 154475. Industrial & Commercial Traders, Swastik Industries Compound, Ram Baug, Chincholi Bunder Road, Malad West, Bombay-400064, Maharashtra State, an Indian Partnership Firm. "Footwear". 31st May, 1984.
- Class 10. No. 154476. Industrial & Commercial Traders, Swastik Industries Compound, Ram Baug, Chincholi Bunder Road, Malad West, Bombay-400064, Maharashtra State, an Indian Partnership Firm. "Footwear". 31st May, 1984.
- Class 12. No. 153996. Personal Products Company, of Van Liew Avenue, Milltown, New Jersey, U.S.A., a corporation organized and existing under the laws of the State of New Jersey, United States of America. "Channeled Sanitary Napkin". 15th January, 1984.
- Class 13. No. 154467. Niky Tasha (India) Private Limited, a company incorporated under the Indian Companies Act, 1956, having its registered office at Mahajan House, E 1 and 2, N.D.S.E. Part II, New Delhi-110049. "Wick". 31st May, 1984.
- Class 13. No. 154468. Niky Tasha (India) Private Limited, a company incorporated under the Indian Companies Act, 1956, having its registered office at Mahajan House, E 1 and 2, N.D.S.E. Part II, New Delhi-110049. "Wick". 31st May, 1984.

#### EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

Nos. 149014, 149015, 149016, 149017, 149018, 149019, 149020. .... Class-1.

R. A. ACHARYA  
Controller General of Patents,  
Designs and Trade Marks.